## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014790

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl<sup>2</sup> C22C38/00, C22C38/14, C22C38/58, C21D9/46

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C22C38/00-60, C21D9/46-48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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1922–1996

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1971–2005

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1996–2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WP1

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	X .	JP 2002-129279 A (Kawasaki Steel Corp.), 09 May, 2002 (09.05.02), Claims; Par. No. [0046] (Family: none)	1-3,5,6, 9-11	
	x	JP 2001-226741 A (Kawasaki Steel Corp.), 21 August, 2001 (21.08.01), Claims (Family: none)	1,2,4,7,8, 12-14	
	A	JP 2001-220647 A (Kawasaki Steel Corp.), 14 August, 2001 (14.08.01), (Family: none)	1-14	
`	A	JP 2000-282175 A (Kawasaki Steel Corp.), 10 October, 2000 (10.10.00), (Family: none)	1-14	

•	Special categories of cited documents:	"Ţ"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive
49 11	document which may throw doubts on priority claim(a) or which is		step when the document is taken alone

cited to establish the publication date of another citation or other special reason (as specified)

Further documents are listed in the continuation of Box C.

- "O" document referring to an oral disclosure, use, exhibition or other means
  "P" document published prior to the international filing date but later than the
  priority date claimed
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

See patent family annex.

Date of the actual completion of the international search
04 January, 2005 (04.01.05)

Date of mailing of the international search report
08 February, 2005 (08.02.05)

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Japanese Patent Office

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Japanese Patent Office

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014790

Category*	Citation of document, with indication, where appropriate, of the relev	Relevant to claim No	
A	JP 2000-178681 A (Nippon Steel Corp.), 27 June, 2000 (27.06.00), (Family: none)		1-14
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